Chapter 18

Formation of Invariants of Research Competence of Students: Situational and Contextual Approach

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ABSTRACT

Professional competence is based on the invariant, which is a systemic and structural education that contains five interrelated components: axiological, motivational, individual-psychological, instrumental, conative. There is no universally accepted notion of “competence” and “competency”. There is no scientifically grounded definition of the invariant structure of competence of the subject of professional activity. The question remains of a productive pedagogical model containing a system of didactic conditions and modern pedagogical technologies that are adequate for the purpose of forming invariants of research competence of student. The basis for the development of such a model was the theory of contextual education by A. A. Verbitskiy. The basic unit of content here is the learning situation, which is a problematic nature. The system of such situations may be based on a situational and contextual approach to the formation of invariants of the research competency of student.

INTRODUCTION

The issue of building research competence of a student is a prevailing task of modern vocational education. The leading research ideas are as follows:

1. The invariant of research competence of university graduate is an integral system of stable links between its components (axiological, motivational, instrumental, individual and psychological, conative), the content of which is accomplished according to the types of professional activity;

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2. Breeding invariants of professional competence is carried out through the use of a pedagogical model containing training situations that determine social and substantive context, content of the research competency invariants of high education graduates.

Research Subject: Developing invariants of student research competency through the implementation of situational and contextual approach.

BACKGROUND


The search of an adequate pedagogical theory that could serve as a basis for the concept of invariants formation of a professional competence of student has led us to a contextual learning theory that has been developed for more than 30 years at the science and pedagogical school of A.A. Verbitskiy (N.A. Bakshaeva, N.V. Borisova, T.D. Dubovickaya, V.N. Kruglikov, M.D. Ilyazova, O.G. Larionova, V.F. Tenishcheva and many others.).

Issues, Controversies, Problems

There are a number of unresolved problems that make it difficult to forming a research competence of student at the university. Within this range we can define the following issues:

1. There is no universally accepted notion of “competence” and “competency”, which are defined by different authors as ability, readiness, property, quality of the person; However, the notions of “competence” and «competency” may carry the same meaning, and may be separated on different grounds.
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